RPO INVENTORY AND PRIORITIZATION TOOL

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Introduction

Earth Tech was tasked with developing a tool to assist in the implementation of remedial process optimization (RPO) at Air Force installations, with the goal of the tool being to inventory remediation systems and long-term monitoring (LTM) programs and to prioritize the systems/LTM programs for future RPO studies. The RPO Inventory and Prioritization Tool will initially be applied at Air Force Materiel Command (AFMC) installations.

Methods

The RPO Inventory and Prioritization Tool is comprised of the following:

- 1. Questionnaires to capture relevant RPO data for each remediation system/LTM program;
- 2. A database to store all RPO data generated from the questionnaires; and
- 3. Site data sheets that inventory and prioritize remediation systems/LTM programs at an installation and/or a Major Command.

Two types of questionnaires were created to capture the RPO data, including an Initial Questionnaire (see Figure 1) developed in Microsoft Excel and Detailed Questionnaires (see Figures 2 and 3) developed in Microsoft Access. The Initial Questionnaire was designed to capture basic information about a system, including remediation site name, remediation system name, remediation system type, and contact information. The Detailed Questionnaires were designed to capture the data necessary to inventory and prioritize remediation systems/LTM programs. The Detailed Questionnaires were developed by expanding upon the questionnaire the USEPA developed for pump-and-treat systems in *Groundwater Pump and Treat Systems: Summary of Selected Cost and Performance Information at Superfund-financed Sites* (USEPA, 2001). While the USEPA questionnaire was designed to only capture data for pump-and-treat systems, the Detailed Questionnaires of the RPO Tool were designed to capture data for most remediation systems typically encountered at Air Force installations (e.g., the Detailed Questionnaire shown in Figure 3 captures data for SVE systems).

In addition to the Detailed Questionnaires, the database and site data sheets were also developed in Microsoft Access. As a result, data inserted into the Detailed Questionnaires are automatically stored in the database, and site data sheets can be automatically generated from the database.

References

U.S. Environmental Protection Agency, December 2001, *Groundwater Pump and Treat Systems: Summary of Selected Cost and Performance Information at Superfund-financed Sites*, Office of Solid Waste and Emergency Response, EPA-542-R-01-021b.

Figure 1. Initial Questionnaire

1. Major Command:			Air Force Materiel										
2. Base/Plant Name?			Air Force Plant 4										
3. Numl	ber of Remed	iation	Systems at Base	/Plant?	5								
4. Is the	4. Is there a Base-/Plant-Wide Long-Term Monitoring (LTM) Program? Yes												
5. Name/Contact Information for person filling out questionnaire:													
Nar	me:	George	ge Walters										
Address: Aeron			neronautical Systems Center, Building 8										
		1801 Te	1801 Tenth Street, Suite 2										
		WPAFE	WPAFB, OH 45433-7626										
Pho	Phone Number: (937) 255-1988												
Fax Number: (937			937) 255-9985										
Email Address: Ge			George.Walters@wpafb.af.mil										
6. Inven	6. Inventory of Remediation Systems and Base-/Plant-Wide LTM Programs:												
Remediation Site Name: System/L'			System/LTM Pr	ogram Name:	Contact Name / Em	loyer / Phone # / Email Address / Access Ver		ss Version:	n: System Type:				
Landfill No. 3			Vacuum-Enhanced Pumping System		Rick Wice / Shaw E&I / (412) 858-3309 / richard.wice@shawgrp.com / Access 2000					Dual-Phase			

Remediation Site Name:	System/LTM Program Name:	Contact Name / Employer / Phone # / Email Address / Access Version:	System Type:	
Landfill No. 3	Vacuum-Enhanced Pumping System	Rick Wice / Shaw E&I / (412) 858-3309 / richard.wice@shawgrp.com / Access 2000	Dual-Phase	
East Parking Lot	Pump & Treat System	Rick Wice / Shaw E&I / (412) 858-3309 / richard.wice@shawgrp.com / Access 2000	Pump & Treat	
Building 181	Electrical resistance heating system	Steve Fain / URS / (512) 419-5072 / stephen_fain@urscorp.com / Access 2000	Thermal technology	
Building 181	SVE System	Rick Wice / Shaw E&I / (412) 858-3309 / richard.wice@shawgrp.com / Access 2000	Dual-Phase	
Fuel Saturation Area No. 1	Pump & Treat System	Rick Wice / Shaw E&I / (412) 858-3309 / richard.wice@shawgrp.com / Access 2000	Pump & Treat	
AFP4	Plant-Wide LTM Program	Dave Parse / Earth Tech / (703) 706-0508 / david.parse@earthtech.com / Access 97	Plant-Wide LTM Program	

Figure 2. RPO Inventory Data

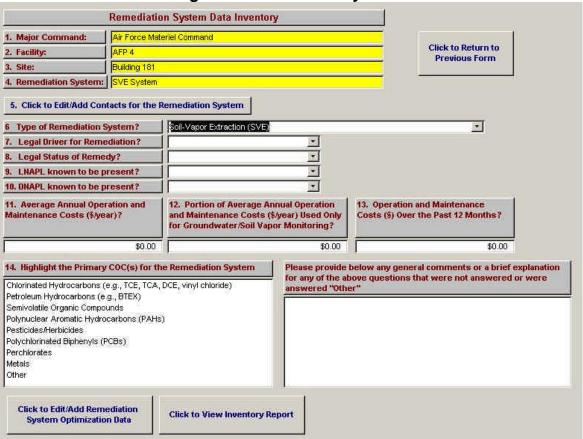


Figure 3. SVE Detailed Questionnaire

